## WHAT IS CLAIMED IS:

1. A multicolor image-forming material comprising:

an image-receiving sheet comprising an image-receiving layer; and

at least four thermal transfer sheets each comprising a support, a photothermal converting layer and an image-forming layer, and each having a different color,

 $\label{eq:wherein} \mbox{ wherein an image is formed by the method comprising the steps of:}$ 

superposing each one of the at least four thermal transfer sheets on the image-receiving sheet to be in a state of the image-forming layer being in contact with the image-receiving layer; and

irradiating the thermal transfer sheet with a laser beam to transfer an image in an area of the image-forming layer subjected to irradiation onto the image-receiving layer,

and a ratio of the reflection optical density  $(OD_r)$  of the image-forming layer to a thickness of the image-forming layer (µm unit) is 1.50 or more, and a contact angle in relation to water of the image-forming layer and the image-receiving layer is from 7.0 to 120.0°.

2. The multicolor image-forming material according to claim 1, wherein a difference between the contact angle in relation to water of the image-forming layer and the contact angle in relation to water of the image-receiving layer is 73° or less.

- 3. The multicolor image-forming material according to claim 1, wherein a difference between the contact angle in relation to water of the image-forming layer and the contact angle in relation to water of the image-receiving layer is 65° or less.
- 4. The multicolor image-forming material according to claim 1, wherein the image-forming layer comprises a first binder comprising a monomer unit and the image-receiving layer comprises a second binder comprising a monomer unit, and at least one of the monomer unit of the first binder and at least one of the monomer unit of the second binder are the same.
- The multicolor image-forming material according to claim 4, wherein the same monomer unit is a vinyl acetal unit.
- 6. The multicolor image-forming material according to claim 4, wherein at least one of the same monomer unit is selected from a styrene unit, a butyral unit and a styrene acrylate unit.
- 7. The multicolor image-forming material according to claim 1, wherein each of the at least four thermal transfer sheets and the image-receiving sheet comprises a coating layer and at least one of the coating layer comprises a surface tension

## decreasing agent

8. The multicolor image-forming material according to claim 7, wherein the surface tension decreasing agent is capable of:

making a surface tension of 1-propanol 22.5 mN/m or less at the time of being contained in a solvent of 1-propanol to be in concentration of 0.5 % by weight;

making a surface tension of methyl ethyl ketone 22.5 mN/m or less at the time of being contained in a solvent of methyl ethyl ketone to be in concentration of 0.5 % by weight; and

making a surface tension of N-methyl-2-pyrrolidone 25.0 mN/m or less at the time of being contained in a solvent of N-methyl-2-pyrrolidone to be in concentration of 0.5 % by weight.

- 9. The multicolor image-forming material according to claim 7, wherein the surface tension decreasing agent is a perfluoroalkylpolyoxyalkylene oligomer.
- 10. The multicolor image-forming material according to claim 1, wherein each of the at least four thermal transfer sheets and the image-receiving sheet comprises a coating layer and at least one of the coating layer comprises at least two kinds of waxes having a melting point of 100°C or less.

- 11. The multicolor image-forming material according to claim 10, wherein the wax is a fatty acid amide.
- 12. The multicolor image-forming material according to claim 11, wherein the fatty acid amide comprises a fatty acid amide in which a fatty acid moiety is a saturated fatty acid and a fatty acid amide in which a fatty acid moiety is an unsaturated fatty acid.
- 13. The multicolor image-forming material according to claim 10, wherein at least one of the coating layer comprises at least one of monomethacrylate, monoacrylate, dimethacrylate, diacrylate, trimethacrylate, triacrylate, tetramethacrylate and tetraacrylate.
- 14. The multicolor image-forming material according to claim 10, wherein at least one of the coating layer comprises one of:
  - a monomer represented by the following formula (1):

 $R_1R_2R_3C-CH_2-OCO-CR=CH_2$  (1)

wherein  $R_1$ ,  $R_2$  and  $R_3$  each independently represents one of a hydrogen atom, a lower alkyl group, and a -CH<sub>2</sub>-OCO-CR=CH<sub>2</sub> group in which R represents one of a hydrogen atom and a methyl group; and

a homo- or copolymer comprising the monomer as the main

component.

- 15. The multicolor image-forming material according to claim 1, wherein the image-forming layer comprises a rosin-based resin having a softening point of 100°C or less measured by a ring and ball method and an acid value of from 2 to 220 measured according to JIS K3504.
- 16. The multicolor image-forming material according to claim 15, wherein the rosin-based resin is a resin selected from a rosin, a hydrogenated rosin, a modified rosin, derivatives of these rosins, and a rosin-modified maleic acid resin.
- 17. The multicolor image-forming material according to claim 15, wherein the rosin-based resin comprises 30 % by weight or more of an abietic acid type rosin acid.
- 18. The multicolor image-forming material according to claim 15, wherein the rosin-based resin is an esterified product of a rosin comprising 30 % by weight or more of an abietic acid type rosin acid and at least one kind of polyhydric alcohol selected from ethylene glycol, glycerol and pentaerythritol.
- 19. The multicolor image-forming material according to claim 1, wherein the image-receiving layer comprises a

rosin-based resin having a softening point of less than 130  $^{\circ}$ C measured by a ring and ball method and an acid value of from 2 to 250 measured according to JIS K3504.

- 20. The multicolor image-forming material according to claim 1, wherein a ratio of a optical density ( $OD_{LH}$ ) of the photothermal converting layer to a thickness of the photothermal converting layer ( $\mu m$  unit) is 4.36 or more.
- 21. The multicolor image-forming material according to claim 1, wherein the transferred image by the irradiation step has resolution of 2,400 dpi or more.
- 22. The multicolor image-forming material according to claim 1, wherein an area of the image-receiving layer on which an image is transferred by the irradiation step is a size of 515 x 728 mm or more.
- 23. The multicolor image-forming material according to claim 1, wherein a ratio of the reflection optical density  $(\text{OD}_r)$  of the image-forming layer to a thickness of the image-forming layer (µm unit) is 2.50 or more.
- 24. The multicolor image-forming material according to claim 1, wherein a ratio of the reflection optical density

 $({\rm OD_r})$  of the image-forming layer to a thickness of the image-forming layer (µm unit) is 1.80 or more, and a contact angle in relation to water of the image-receiving layer is 86° or less.

- 25. The multicolor image-forming material according to claim 1, wherein the photothermal converting layer comprises a heat resisting resin having a glass transition temperature of from 200°C to 400°C and a heat decomposition temperature of 450°C or more.
- 26. The multicolor image-forming material according to claim 25, wherein the heat resisting resin is an organic solvent-soluble polyimide resin.
- 27. The multicolor image-forming material according to claim 1, wherein the image-forming layer comprises from 20 to 80 % by weight of a pigment and 20 to 80 % by weight of an amorphous organic high molecular weight polymer having a softening point of from 40 to 150°C, and the image-forming layer has a thickness of from 0.2  $\mu$ m to 1.5  $\mu$ m.
- 28. A method for forming a multicolor image using the image-receiving sheet according to claim 1 and the at least four thermal transfer sheets according to claim 1, the method comprising the steps of:

superposing each one of the at least four thermal transfer sheets on the image-receiving sheet to be in a state of the image-forming layer being in contact with the image-receiving layer; and

irradiating the thermal transfer sheet with a laser beam to transfer an image in an area of the image-forming layer subjected to irradiation onto the image-receiving layer, wherein each of the image-forming layer is a thin film.